NEUROSCIENCE B.S.

All students must meet the University Requirements. (http://catalogue.uvm.edu/undergraduate/academicinfo/degreerequirements/)

All students must meet the College Requirements. (http://catalogue.uvm.edu/undergraduate/artsandsciences/#requirementstext)

MAJOR REQUIREMENTS

FUNDAMENTAL COURSES:		
PSYS 001	Intro to Psychological Science	3
Choose 1 of the following Biology options:		4-8
Option A (recommended)		
BCOR 011 & BCOR 012	Exploring Biology and Exploring Biology	
Option B		
BCOR 021	Accelerated Biology	
Option C		
BIOL 001 & BIOL 002	Principles of Biology and Principles of Biology	
Chemistry:		8
CHEM 031 & CHEM 032	General Chemistry 1 and General Chemistry 2	
Choose 1 of the following Mathematics options:		6-8
MATH 019	QR: Fundamentals of Calculus I	
or MATH 021	QR: Calculus I	
MATH 020	QR:Fundamentals of Calculus II	
or MATH 022	QR: Calculus II	
FOUNDATION COURSES:		
NSCI 111	Exploring Neuroscience	3
NSCI 112	Exploring Neurosci Laboratory	1
BCOR 101	Genetics	3
Choose 1 of the following Organic Chemistry options:		4-8
Option A		
CHEM 042	Intro Organic Chemistry	
Option B		
CHEM 141 & CHEM 142	Organic Chemistry 1 and Organic Chemistry 2	
Choose 1 of the following:		3
PSYS 111	Learning, Cognition & Behavior	
PSYS 115	Biopsychology	
CSD 281	Intro Cognitive Neuroscience	
Experimental Design and Statistics Options:		6-7
PSYS 053	Research Methods	
Choose one of the following:		
PSYS 054	Statistics for Psych Sci	
STAT 141	QR:Basic Statistical Methods 1	
STAT 211	QR: Statistical Methods I	
Senior Capstone:		
NSCI 270	Diseases of the Nervous System	3
ELECTIVES:		
Six courses of Neuroscience electives, with at least two from each of the following categories:		24
Category A		
CSD 101	Speech & Hearing Science	
CSD 208	Cognition & Language	
PSYS 211	Learning	
PSYS 212	Cognition	
PSYS 213	Motivation	
PSYS 214	Adv Cognitive Neuroscience	
PSYS 215	Physiological Psychology	
PSYS 218	Hormones and Behavior	
PSYS 220	Behavioral Genetics	
PSYS 252	Emotional Devlmt & Temperament	
Category B		
BCOR 103	Molecular and Cell Biology	
or BIOL 108	Molecular and Cell Biology	
BIOL 210	Model Systems in Neuroscience	
BIOL 266	Neurodevelopment	
NSCI 222	Cellular Neurophysiology	
NSCI 225	Human Neuroanatomy	
NSCI 255	Neuroregeneration	
NSCI 261	Neurobiology for Majors	
NSCI 280	Glia: Not Just Neuron Glue	

PHRM 201	Introduction to Pharmacology	
PHRM 290	Topics Molecular&Cell Pharm	
PSYS 216	Psychopharmacology	
Additional courses may be accepted as Advanced Course Options with prior approval from the Neuroscience Directors.		
Up to 3 credits of research may count towards the Neuroscience electives. These courses include HON 281, HON 282, NSCI 198, and NSCI 298; research credits in other related disciplines may be applied with the approval of the Neuroscience Director.		
NSCI 3XX courses may be accepted as Advance Course Options with prior approval from the Neuroscience Directors. These courses are often open to upper level undergraduate students with instructor permission		

Restrictions:

Students completing the B.S. in Neuroscience may not also receive the B.A. in Psychological Science.